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10/808,645	03/24/2004	William Michael McCardle	200600376-1	6121
22879 HEWLETT PA	7590 01/14/200 CKARD COMPANY	EXAMINER		
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	AL PROPERTY ADM NS, CO 80527-2400	INISTRATION	ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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. '		Application No.	Applicant(s)			
		10/808,645	MCCARDLE ET AL.			
	Office Action Summary	Examiner	Art Unit			
·	·	Nghi V. Tran	2151			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be found apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	NN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>07 November 2007</u> .					
/	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-4,6-14,16-20 and 28-35 is/are pend 4a) Of the above claim(s) 30-35 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4, 6-14, 16-20, and 28-29 is/are rejection(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic	et(s) See of References Cited (PTO-892) See of Draftsperson's Patent Drawing Review (PTO-948) Smation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summal Paper No(s)/Mail I 5) Notice of Informal	Date			
	er No(s)/Mail Date	6) 🔲 Other:				

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DETAILED ACTION

1. This office action is in response to the amendment filed on May 17, 2007. Claims 1-4, 6-14, 17-18, and 20 have been amended. Claims 5, 15, and 21-27 have been canceled. Claims 28-35 have been added. Therefore, claims 1-4, 6-14, 16-20, and 28-35 are presented for further examination.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/07/2007 has been entered.

Election/Restrictions

- 3. Newly submitted claims 30-35 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:
 - Claims 1-4, 6-14, 16-20, and 28-29, drawn to a method and/or software of compute clustering identify a defined cluster, storing the physical locations associating a plurality of images for use on different network devices, classified in class 709, subclass 223.

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- II. Claims 30-35, drawn to provide a GUI that receive information from a user to create a defined cluster by pointing and clicking on a portion of the plurality of receptor illustrated in the selection area, classified in class 715, subclass 744.
- Inventions are distinct, each from the other because of the following reasons:

 Inventions I and II are unrelated. Inventions are unrelated if it can be shown that
 they are not disclosed as capable of use together and they have different modes of
 operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In
 the instant case the different inventions drawn to to create a defined cluster by pointing
 and clicking on a portion of the plurality of receptor illustrated in the selection area.
- 5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 6. Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 30-35 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

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Claim Rejections - 35 USC § 112

7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 8. Claims 1 and 11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 9. In claims 1 and 11, the applicants wrote "associating each stored receptor physical location of the defined cluster with a <u>not</u> necessarily same selected one of a plurality of images" (emphasized added). The examiner cannot find any support for this limitation. The examiner considers the "not" as a negative limitation. According to MPEP2173.05(i) "Any negative limitation or exclusionary proviso must have basis in the original disclosure". Since the applicants does not positively describe that associating each stored receptor physical location of the defined cluster with a <u>not</u> necessarily same selected one of a plurality of images, the examiner consider the limitation "not" as a new matter.
- 10. Claims 2-4, 6-10, 12-14, 16-20, and 28-29 are rejected under 35 U.S.C. 112, first paragraph, because they are depending directly on independent claims 1 and 11.

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 1-4, 6-14, 16-24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmer et al., United States Patent Number 7,051,215 (hereinafter Zimmer), in view of Buchanan et al., United States Patent Application Publication 2003/0204503 (hereinafter Buchanan).
- 13. With respect to claims 1, 11, and 21, Zimmer teaches a method of compute clustering [see abstract and figs.1-3], comprising:
 - identifying a defined cluster [col.1, In.45 through col.2, In.30], the cluster including a plurality of receptors [i.e. an interface plane **104** such as backplane and/or mid-plane, col.3, Ins.62-66] in a chassis [i.e. rack mounted chassis **100**], each receptor configured to couple the chassis to a network device [i.e. blades **102** and/or **200**, figs.1-2], at least one of the plurality of receptors in the cluster being unoccupied by a network device [i.e. all slots in a chassis do not need to be occupied, col.3, Ins.58-62];

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- storing the physical locations [i.e. blade ID such as blade 1-N and/or MAC address, col.10, lns.60-67] associated with each of the plurality of receptors [fig.6 and col.10, lns.60-67];
- wherein storing the physical locations includes storing the physical location associated with the at least one receptor in the cluster that is unoccupied by a network device [col.12, lns.31-53 and col.3, lns.58-62].

However, Zimmer does not explicitly show associating each stored receptor physical location of the defined cluster with a not necessarily same selected one of a plurality of images; receiving a first selected image for a first network device of the defined cluster in accordance with the physical address of the receptor coupled to the first network device; and receiving a second selected image for a second network device of the defined cluster in accordance with the physical address of the receptor coupled to the second network device, wherein the second selected image is different from the first selected image.

In a clustered servers method, Buchanan discloses associating each stored receptor physical location of the defined cluster with a not necessarily same selected one of a plurality of images; receiving a first selected image for a first network device of the defined cluster in accordance with the physical address of the receptor coupled to the first network device; and receiving a second selected image for a second network device of the defined cluster in accordance with the physical address of the receptor coupled to the second network device, wherein the second selected image is different from the first selected image [paragraphs 0024-0034].

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by receiving a first selected image for a first network device of the defined cluster in accordance with the physical address of the receptor coupled to the first network device and receiving a second selected image for a second network device of the defined cluster in accordance with the physical address of the receptor coupled to the second network device, wherein the second selected image is different from the first selected image because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to satisfy boot image sessions initiated by one or more client systems on the network [Buchanan, see abstract].

14. With respect to claims 2, 12, and 22, Zimmer does not explicitly show receiving an image designated as a default image for a sub-plurality of receptors in the defined cluster.

In a related method, Buchanan discloses receiving an image designated as a default image [= the boot image server may assign the new session a default responsiveness with a high priority, see paragraph 0020].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by receiving a default image because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of

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the invention would have been motivated in order to satisfy boot image sessions initiated by one or more client systems on the network [Buchanan, see abstract].

15. With respect to claims 3, 13, and 23, Zimmer further teaches at least one of the plurality of receptors in the cluster being unoccupied by a network device [i.e. all slots in a chassis do not need to be occupied, col.3, lns.58-62];

However, Zimmer does not explicitly show associating the default image with the at least one receptor in the defined cluster.

In a related method, Buchanan discloses receiving an image designated as a default image [= the boot image server may assign the new session a default responsiveness with a high priority, see paragraph 0020].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by receiving a default image because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to satisfy boot image sessions initiated by one or more client systems on the network [Buchanan, see abstract].

16. With respect to claims 4, 14, and 24, Zimmer does not explicitly show wherein each of the plurality of images comprises a different physical location identifying different software that operates to configure the plurality of receptors in the defined cluster.

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In a related method, Buchanan discloses wherein each of the plurality of images comprises a different physical location identifying different software that operates to configure the plurality of receptors in the defined cluster [paragraphs 0024-0034].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by identifying a different physical location because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to satisfy boot image sessions initiated by one or more client systems on the network [Buchanan, see abstract].

17. With respect to claims 6, 16, and 26, Zimmer does not explicitly show wherein a master image comprises a physical location identifying software that operates to configure a selected receptor.

In a related method, Buchanan discloses wherein the master image comprises a physical location identifying software that operates to configure the selected receptor [paragraphs 0024-0034].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by identifying a different physical location because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to satisfy boot image

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sessions initiated by one or more client systems on the network [Buchanan, see abstract].

18. With respect to claims 7-10 and 17-20, Zimmer further teaches detecting the presence of a network device coupled to the at least one receptor in the defined cluster that was previously unoccupied; and in response to detecting the presence [col.3, ln.54 through col.4, ln.42].

However, Zimmer does not explicitly show automatically installing an image on the network device; providing message the user with the option of installing a default image on the network device; and overriding the image by installing the default image on the network device.

In a related method, Buchanan discloses automatically installing an image on the network device [paragraphs 0005 and 0008]; providing message the user with the option of installing a default image on the network device [paragraph 0020]; and overriding the image by installing the default image on the network device [= the boot image server may assign the new session a default responsiveness with a high priority, see paragraph 0020].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by operating to configure the selected receptor via a physical location identifying software because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been

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motivated in order to satisfy boot image sessions initiated by one or more client systems on the network [Buchanan, see abstract].

19. With respect to claims 28 and 29, Zimmer further teaches storing a set of attributes for the defined cluster [= manage blade activities, col.4, II.39-42 and col.3, II.57-62]; expand the cluster by identifying additional receptors [= blades can be added or removed "hot swapped" on the fly, col.3, II.62 through col.4, II.6].

However, Zimmer does not explicitly show update a network device coupled to a newly identified receptor in the defined cluster automatically using the store set of attributes.

In a related method, Buchanan discloses update a network device coupled to a newly identified receptor in the defined cluster automatically [paragraphs 0005 and 0008] using the store set of attributes [paragraph 0020 and 0027-0028].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zimmer in view of Buchanan by updating a network device coupled to a newly identified receptor in the defined cluster automatically using the store set of attributes because this feature provides a multiple boot images [Buchanan, paragraph 0028]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to satisfy boot image sessions initiated by one or more client systems on the network [Buchanan, see abstract].

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Response to Arguments

20. Applicant's arguments with respect to claims 1-4, 6-14, 16-20, and 28-35 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi V. Tran whose telephone number is (571) 272-4067. The examiner can normally be reached on Monday-Thursday and every other Friday (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nghi Tran Patent Examiner Art Unit 2151

January 03, 2008

SUPERVISORY PATENT EXAMINER